

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/7/27 892A  
Source: IFWO  
Date Processed by STIC: 2-15-65

# ***ENTERED***



IFWO

## RAW SEQUENCE LISTING

DATE: 02/15/2005

PATENT APPLICATION: US/10/712,892A

TIME: 14:10:17

Input Set : A:\P5032R1 - Sequence Listing.txt

Output Set: N:\CRF4\02152005\J712892A.raw

7 <110> APPLICANT: Ashkenazi, Avi J.  
 8 Frantz, Gretchen  
 9 Goddard, Audrey  
 10 Gonzalez, Lino  
 11 Gurney, Austin L.  
 12 Polakis, Paul  
 13 Polson, Andrew  
 14 Wood, William  
 15 Wu, Thomas D.  
 16 Zhang, Zemin  
 18 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND  
 19 TREATMENT OF TUMOR  
 21 <130> FILE REFERENCE: P5032R1-US  
 23 <140> CURRENT APPLICATION NUMBER: US 10/712,892A  
 C--> 24 <141> CURRENT FILING DATE: 2003-11-12  
 26 <150> PRIOR APPLICATION NUMBER: US 60/426,847  
 27 <151> PRIOR FILING DATE: 2002-11-15  
 29 <150> PRIOR APPLICATION NUMBER: US 60/431,250  
 30 <151> PRIOR FILING DATE: 2002-12-06  
 32 <150> PRIOR APPLICATION NUMBER: US 60/437,344  
 33 <151> PRIOR FILING DATE: 2002-12-31  
 35 <160> NUMBER OF SEQ ID NOS: 42  
 37 <210> SEQ ID NO: 1  
 38 <211> LENGTH: 2625  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Homo sapiens  
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 45 agaggtctgc gtgacgcgtc cgggaggcca ccctcagcaa gaccaccgta 100  
 47 cagttggtgg aaggggtgac agctgcattc tcctgtgcct accacgtaac 150  
 49 caaaaatgaa ggagaactac tgtttacaag ccgccctggg gtgcctgggc 200  
 51 atgctgtgcc acagccatgc ctttgcccca gagcggcggg ggcacctgcg 250  
 53 gccctccttc catgggcacc atgagaaggg caaggagggg caggtgctac 300  
 55 agcgtctcaa gcgtggctgg gtctggaacc agttcttcgt gatagaggag 350  
 57 tacaccgggc ctgaccccggt gcttgtgggc aggcttcatt cagatattga 400  
 59 ctctggtgat gggaacatta aatacattct ctcaggggaa ggagctggaa 450  
 61 ccatttttgt gattgatgac aaatcaggga acattcatgc caccaagacg 500  
 63 ttggatcgag aagagagagc ccagtacacg ttgatggctc aggcggtgga 550  
 65 cagggaacac aatcggccac tggagccacc gtcggaattc attgtcaagg 600  
 67 tccaggacat taatgacaac cctccggagt tcctgcacga gacctatcat 650  
 69 gccaacgtgc ctgagaggtc caatgtggga acgtcagtaa tccagggtgac 700  
 71 agcttcagat gcagatgacc ccacttatgg aaatagcgcc aagttagtgt 750  
 73 acagtatcct cgaaggacaa ccctattttt cgggtggaagc acagacaggt 800

(ps, 6)

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77 ccacgtggtg atccaggcca aggacatggg tggacatatg ggcggactct 900
79 cagggacaac caaagtgacg atcacactga ccgatgtcaa tgacaaccca 950
81 ccaaagtttc cgcagaggct ataccagatg tctgtgtcag aagcagccgt 1000
83 ccctggggag gaagtaggaa gagtgaagc taaagatcca gacattggag 1050
85 aaaatggctt agtcacatac aatattgttg atggagatgg tatggaatcg 1100
87 tttgaaatca caacggacta tgaaacacag gagggggtga taaagctgaa 1150
89 aaagcctgta gattttgaaa ccgaaagagc ctatagcttg aaggtagagg 1200
91 cagccaacgt gcacatcgac ccgaagtta tcagcaatgg ccctttcaag 1250
93 gacactgtga ccgtcaagat ctcatagaa gatgctgatg agccccctat 1300
95 gttcttgccc ccaagttaca tccacgaagt ccaagaaaat gcagctgctg 1350
97 gcaccgtggt tgggagatg catgccaaag accctgatgc tgccaacagc 1400
99 ccgataaggt attccatcga tcgtcacact gacctcgaca gatttttcac 1450
101 tattaatcca gaggatggtt ttattaaaac tacaaaacct ctggatagag 1500
103 aggaaacagc ctggctcaac atcactgtct ttgcagcaga aatccacaat 1550
105 cggcatcagg aagcccaagt ccagtgggc attagggtcc ttgatgtcaa 1600
107 cgataatgct cccaagtttg ctgcccctta tgaaggtttc atctgtgaga 1650
109 gtgatcagac caagccactt tccaaccagc caattgttac aattagtgca 1700
111 gatgacaagg atgacacggc caatggacca agatttatct tcagcctacc 1750
113 ccctgaaatc attcacaatc caaatttcac agtcagagac aaccgagata 1800
115 acacagcagg cgtgtacgcc cggcgtggag gggttcagtcg gcagaagcag 1850
117 gacttgtagc ttctgcccac agtgatcagc gatggcggca tcccggccat 1900
119 gagtagcacc aacaccctca ccatcaaagt ctgcgggtgc gacgtgaacg 1950
121 gggcactgct ctcttgcaac gcagaggcct acattctgaa cgccggcctg 2000
123 agcacaggcg ccctgatcgc catctcgcgc tgcacgtca ttctcctggt 2050
125 cattgtagta ttgtttgtga ccctgagaag gcaaaagaaa gaaccactca 2100
127 ttgtctttga ggaagaagat gtccgtgaga acatcattac ttatgatgat 2150
129 gaagggggtg ggaagaaga cacagaagcc tttgatattg ccaccctcca 2200
131 gaatcctgat ggtatcaatg gatattccc ccgcaaagac atcaaacctg 2250
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135 gatgtcgatg acttcatcaa cagagaata caggaggcag acaatgaccc 2350
137 cagggctcct cttatgact ccattcaaat ctacggttat gaaggcaggg 2400
139 gctcagtggc cgggtccctg agctccctag agtcggccac cacagattca 2450
141 gacttggaat atgattatct acagaactgg ggacctcgtt ttaagaaact 2500
143 agcagatttg tatggttcca aagacacttt tgatgacgat tcttaacaat 2550
145 aacgatacaa atttggcctt aagaactgtg tctggcggtc tcaagaatct 2600
147 agaagatgtg taacaggtat ttttt 2625
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150 <211> LENGTH: 1371
151 <212> TYPE: DNA
152 <213> ORGANISM: Homo sapiens
154 <400> SEQUENCE: 2
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157 ggccttggca ggggtttgga gccctcgggc tgccccgtcc ggtctctggg 100
159 gccaggctg ggtttccctc atgtatggca agagctctac tcgtgcggtg 150
161 cttcttctcc ttggcataca gctcacagct ctttggccta tagcagctgt 200
163 ggaaatttat acctcccggg tgctggaggg tggttaatggg acagatgctc 250
165 ggttaaaatg cactttctcc agctttgccc ctgtgggtga tgctctaaca 300
167 gtgacctgga attttctgccc tctagacggg ggacctgagc agtttgtatt 350

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171 ggggtgtcttg ggatgggaat cctgagcggg acgatgcctc catccttctc 450
173 tggaaactgc agttcgacga caatgggaca tacacctgcc aggtgaagaa 500
175 cccacctgat gttgatgggg tgatagggga gatccggctc agcgtcgtgc 550
177 aactgttacg cttctctgag atccacttcc tggctctggc cattggctct 600
179 gcctgtgcac tgatgatcat aatagtaatt gtagtggctc tcttccagca 650
181 ttaccggaag aagcgatggg ccgaaagagc tcataaagtg gtggagataa 700
183 aatcaaaaga agaggaaagg ctcaaccaag agaaaaaggc ctctgtttat 750
185 ttagaagaca cagactaaca attttagatg gaagctgaga tgatttccaa 800
187 gaacaagaac ctagtatttt cttgaagtta atggaaactt ttctttggct 850
189 tttccagttg tgacctgtt tccaaccagt tctgcagcat attagattct 900
191 agacaagcaa caccctctg gagccagcac agtgctcctc catatcacca 950
193 gtcatacaca gcctcattat taaggcttta tttaatttca gagtgtaaat 1000
195 tttttcaagt gctcattagg ttttataaac aagaagctac atttttgccc 1050
197 ttaagacact acttacagtg ttatgacttg tatacacata tattggtatc 1100
199 aaaggggata aaagccaatt tgtctgttac atttcttttc acgtatttct 1150
201 ttttagcagca cttctgtctac taaagttaat gtgtttactc tctttccttc 1200
203 ccacattctc aattaaaagg tgagctaagc ctctcgggtg tttctgatta 1250
205 acagtaaata ctaaattcaa actgttaaata gacattttta tttttatgtc 1300
207 tctccttaac tatgagacac atcttggttt actgaatttc tttcaatatt 1350
209 ccaggtgata gatttttgtc g 1371
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212 <211> LENGTH: 1274
213 <212> TYPE: DNA
214 <213> ORGANISM: Homo sapiens
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217 ggcacgaggc gattcagggg agggagcaac tggagcctca ggcctccag 50
219 agtagtctgc ctgaccaccc tggagcccac agaagcccag gacgtctccc 100
221 gcgaggcctc cccgtgtgtg gctgaggatg gctgagcagc agggccggga 150
223 gcttgaggct gactgccccg tctgctggaa ccccttcaac aacacgttcc 200
225 ataccccaa aatgctggat tgctgccact ccttctgcgt ggaatgtctg 250
227 gccacactca gccttgtgac tccagcccgg cgcgcctgc tgtgccact 300
229 ctgtgcgag cccacagtgc tggcctcagg gcagcctgtc actgacttgc 350
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233 atcctggaag gccatcagct gtgcctcaag gaccagccca agagccgcta 450
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249 tgtttatttt acaatccagg gattgttcag gccatgtgtt tgcttctggg 850
251 aacaatttaa aaaaaaaaca aaaaaacgaa agcttgaag gactgggaga 900
253 tgtggagcga cctccgggtg tgagtgtggc gtcatggaag ggcagagaag 950
255 cggttctgac cacagactc cacagcaagt tgtgccaaag ggctgcacag 1000
257 tggatccag gaacctgact agcccaaata gcaagttgca tttctcactg 1050
259 gagctgcttc aaaatcagtg catatttttt tgagttgtct ttttactatg 1100
261 gggtgctaaa aaaaaaaaaa aaaaaattgg gaagtgaagt tcaattctgt 1150

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265  aaaagtgttc  tgtattcatt  aaaaaaaaaa  aaaaaaaaaa  aaaaaaaaaa  1250
267  aaaaaaaaaa  aaaaaaaaaa  aaaa  1274
269  <210> SEQ ID NO: 4
270  <211> LENGTH: 2032
271  <212> TYPE: DNA
272  <213> ORGANISM: Homo sapiens
274  <400> SEQUENCE: 4
275  gaagcgcgct  cccggggagg  tgttgcagcc  atggctacgg  cagccggcgc  50
277  gacctacttt  cagcgaggca  gtctgttctg  gttcacagtc  atcaccctca  100
279  gctttggcta  ctacacatgg  gttgtcttct  ggcctcagag  tatcccttat  150
281  cagaaccttg  ggcccttggg  ccccttcact  cagtacttgg  tggaccacca  200
283  tcacaccctc  ctttgcaatg  ggtattggct  tgcctggctg  attcatgtgg  250
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287  ggtcgggctc  agctactctg  gttcctacag  actttcttct  ttgggatagc  350
289  gtctctcacc  atcttgattg  cttacaaacg  gaagcgccaa  aaacaaactt  400
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323  tgcacacagg  tgctctaacc  atgtttattg  aacaaaggag  ggaaactgat  1250
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327  aaccctattg  gggtagcctc  accccaaaat  aaaagcccaa  gtctaccttt  1350
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339  ttagggcttc  ttccctggag  gactgctgct  ttgctttctg  gggacactag  1650
341  cctcatttcc  ccttctgtgg  tacagtgggg  caaattatct  gtattaagca  1700
343  aacatttatg  ggaaacaacc  cgctcccgaa  aacggagccc  ccaagtaaag  1750
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347  ttctgcaaac  atatctcagt  ctccctctg  tttctctggt  gattaagaag  1850
349  ttcctttttg  gtaaggaaaa  ggatttttaa  ccatagagtt  aggcacatg  1900
351  gaaattcaaa  ccagatttct  taatacctgg  tcttcctcaa  agagaaataa  1950
353  taacagtaat  agtgggtgct  ggaacaatat  ggcagattat  tgaatgaaat  2000
355  tgattaactt  gaataaaatg  ctgtgaattt  tc 2032

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Input Set : A:\P5032R1 - Sequence Listing.txt

Output Set: N:\CRF4\02152005\J712892A.raw

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357 <210> SEQ ID NO: 5
358 <211> LENGTH: 1572
359 <212> TYPE: DNA
360 <213> ORGANISM: Homo sapiens
362 <400> SEQUENCE: 5
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365   gttcagacg gtggatgttg cagctgatca tgcagttggg ttcggtgctg 100
367   ctcacacgct gccccttttg gggctgcttc agccagctca tgctgtacgc 150
369   tgagagggct gaggcacgcc ggaagcccga catcccagtg ccttacctgt 200
371   atttcgacat gggggcagcc gtgctgtgcg ctagtttcat gtcctttggc 250
373   gtgaagcggc gctggttcgc gctggggggc gcactccaat tggccattag 300
375   cacctacgcc gcctacatcg ggggctacgt ccactacggg gactggctga 350
377   aggtccgcat gtactcgcgc acagttgcc aatcgcggcg ctttcttgtg 400
379   ttggccagcg gtgctgggga gctgtaccgc cggaaacctc gcagccgctc 450
381   cctgcagtc accggccagg tgctcctggg tatctacctc atctgtgtgg 500
383   cctactcact gcagcacagc aaggaggacc ggctggcgta tctgaaccat 550
385   ctcccaggag gggagctgat gatccagctg ttcttcgtgc tgtatggcat 600
387   cctggccctg gcctttctgt caggctacta cgtgaccctc gctgcccaga 650
389   tcctggctgt actgtgccc cctgtcatgc tgctcattga tggcaatgtt 700
391   gcttactggc acaacacgcg gcgtgttgag ttctggaacc agatgaagct 750
393   ccttgagag agtgtggca tcttcggaac tgctgtcatc ctggccactg 800
395   atggctgagt tttatggcaa gaggctgaga tgggcacagg gagccactga 850
397   gggtcaccct gccttcctcc ttgctggccc agctgctgtt tatttatgct 900
399   ttttggctctg tttgtttgat cttttgcttt tttaaaattg ttttttgcag 950
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407   gggctgggat gcggctactg agagtgggag agtgggagac agaggaagga 1150
409   agatggagat tggaagtga caaatgtgaa aaattcctct ttgaacctgg 1200
411   cagatgcagc taggtctgct agtgctgttt ggagactgtg agagggagtg 1250
413   tgtgtgttga cacatgtgga tcaggcccag gaagggcaca ggggctgagc 1300
415   actacagaag tcacatgggt tctcagggtg tgccaggggc agaaacagta 1350
417   ccggtctctc gtcactcacc ttgagagtag agcagaccct gttctgctct 1400
419   gggctgtgaa ggggtggagc aggcagtggc cagctttgcc cttcctgctg 1450
421   tctctgtttc tagctccatg gttggcctgg tgggggtgga gttccctccc 1500
423   aaacaccaga ccacacagtc ctccaaaaat aaacatttta tatagacaaa 1550
425   aaaaaaaaaa aaaaaaaaaa aa 1572
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430 <213> ORGANISM: Homo sapiens
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433 <221> NAME/KEY: Unsure
434 <222> LOCATION: 1141
435 <223> OTHER INFORMATION: Unknown base
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 1141  
Seq#:14; N Pos. 2138  
Seq#:18; N Pos. 5094  
Seq#:27; Xaa Pos. 381

## VERIFICATION SUMMARY

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Input Set : A:\P5032R1 - Sequence Listing.txt

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L:24 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:482 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1100  
L:1433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:2100  
L:1872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:5050  
L:2790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:375

7